

VENDOR DESCRIPTION

The **AreaRAE Gamma** is a combination gas and radiation detector equipped with a wireless, RF (radio frequency) modem that allows the unit to communicate and transmit sensor and GPS readings and other information on a real-time basis with a remotely located base controller.

In stand-alone operation, the **AreaRAE Gamma** is a rugged, weatherproof, one-to-five-sensor portable monitor that can run up to 24 hours on either rechargeable lithium-ion or optional alkaline batteries. It is also the first "lunchbox" type multi-sensor instrument able to include a gamma sensor for measurement of gamma radiation and a photo-ionization detector (PID) for parts-per-million measurement of volatile organic compounds (VOCs), as well as LEL combustible gas sensor, oxygen sensor, and a selectable electrochemical toxic sensor.

The frequency-hopping RF modem allows secure real-time data transmissions with a base controller located up to two miles (3.2 km) away from the **AreaRAE Gamma** detector. A personal computer can be used as the base station. The standard ProRAE Remote software used to control **AreaRAE Gamma** systems is capable of monitoring the input of up to 32 remotely located monitors.



Product Manager Robotic & Unmanned Sensors

Telephone: (732) 427-5827 / DSN 987

Fax: (732) 427-5072 / DSN 987

e-mail: SFAE-IEWS-NV-RUS@IEWS.monmouth.army.mil



Business Category: Large Business

Misc

Hardware

Weight: 4.5 kg or 9.8 lbs	Operating Altitude: N/A
Dimensions: 235mm x 127mm x 235mm	Operating Speed: N/A
Internal Volume: 0.007 m ³ or 0.248ft ³	Operating Temp.: -20°C to 45°C

Performance - Radiation

Radiation	DER Range	Energy Range	Sensitivity
Gamma	0.1-40 uSv/hr	0.033 – 3.0 MeV	100 cps / uSv/hr

Performance - Chemical

Chemical	Range	Resolution	Chemical	Range	Resolution
Combustible	0 - 100% LEL	1% LEL	Nitric Oxide	0-250 ppm	1 ppm
VOCs	0 - 200 ppm	0.1 ppm	Nitrogen Dioxide	0-20 ppm	0.1 ppm
	200-2000 ppm	1 ppm	Chlorine	0-10 ppm	0.1 ppm
Oxygen	0-30%	0.1%	Hydrogen Cyanide	0-100 ppm	1 ppm
Carbon Monoxide	0-500 ppm	1 ppm	Ammonia	0-50 ppm	1 ppm
Hydrogen Sulfide	0-100 ppm	1 ppm	Phosphine	0-5 ppm	0.1 ppm
Sulfur Dioxide	0-20 ppm	0.1 ppm			

For more information please visit www.raesystems.com